

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): An electrical connector comprising:
a terminal fixed to a connector housing;
a conductor exposed from a covering and having a connection portion connected to a connection portion of the terminal;

a foam element at a predetermined foam ratio selected to substantially match the impedance of the connection portion with the covering of the conductor, located around respective connection portions of the conductor and the terminal.

2. (original): The electrical connector according to claim 1,
wherein the foam element includes a resin,
wherein impedance of the foam element is closer to impedance of the covering, compared with a non-foamed resin.

3. (original): The electrical connector according to claim 1,
wherein the foam element includes a foam resin.

4. (original): The electrical connector according to claim 1,

wherein the foam element functions as a capacitive capacitor.

5. (original): The electrical connector according to claim 1,

wherein respective connection portions of the conductor and the terminal are located in a cavity of the connector housing,

wherein the connector housing is made of a foamed resin.

6. (original): The electrical connector according to claim 1,

wherein the foam ratio of the foam element is greater than 0% and 80% or less.

7. (original): The electrical connector according to claim 1,

wherein the foam element has strength to maintain a structure thereof.

8. (currently amended): A method of fabricating an electrical connector, comprising:

connecting a connection portion of a terminal and a connection portion of a conductor

exposed from a covering to each other; and

covering respective connection portions of the terminal and the conductor ~~from~~

~~therearound~~ with a foam element at a ~~predetermined~~ foam ratio selected to substantially match

the impedance of the connection portion with the covering of the conductor.

9. (original): The method of fabricating an electrical connector according to claim 8,

wherein the foam element is controlled to be approximate in impedance to the covering.

10. (original): The method of fabricating an electrical connector according to claim 8,
wherein the foam element is molded to cover respective connection portions.

11. (original): The method of fabricating an electrical connector according to claim 8,
wherein the foam element is formed into a predetermined shape to be fitted to respective
connection portions.

12. (original): The method of fabricating an electrical connector according to claim 8,
wherein the foam element is formed as a tape to be wound around respective connection
portions.

13. (currently amended): An electrical connector comprising:

a cable comprising:

an electrical wire including a conductor exposed from a first covering;

a drain wire arrayed parallel to the electric wire; and

a jacket holding the electric wire and the drain wire;

a connection terminal having a connection portion connected to an end of the conductor;

an earth terminal having a connection portion connected to an end of the drain wire;

a connector housing receiving the connection terminal and the earth terminal;

a second covering located around the foam resin, and

a foam resin having a foam ratio selected to substantially match the impedance of the connection portion with the first and second coverings of the conductor, located around the end of the conductor, the connection portion of the connection terminal, the end of the drain wire and the connection portion of the earth terminal; and
~~a second covering located around the foam resin.~~

14. (currently amended): A cable comprising:
an electric wire having a conductor exposed from a covering.
a connector including a terminal having a connection portion connected to a connection portion of the conductor and fixed to a connector housing; and
a foam element at a ~~predetermined~~ foam ratio selected to substantially match the impedance of the connection portion with the covering of the conductor, located around respective connection portions of the conductor and the terminal.

15. (currently amended): A connector for a signal transmission cable, comprising:
a connector housing;
a terminal fixed to the connector housing;
a cable conductor electrically connected to the terminal by welding within the connector housing; and
a foam element having a foam ratio selected to substantially match the impedance of connection portions of the conductor with the covering of the conductor, the covering connection portions of the terminal and the cable conductor within the connector housing.

16. (original): The connector for a signal transmission cable according to claim 15, wherein the connection portions include a molten alloy layer.

17. (currently amended): The method of fabricating a connector for a signal transmission cable, comprising:

welding a terminal and a cable conductor to each other for connection;

preparing a foamable resin;

locating connection portions of the terminal and the cable conductor in a die;

feeding the foamable resin into the die for extrusion to cover the connected terminal and the conductor ~~from the rear around~~ with a foam element at a predetermined foam ratio selected to substantially match the impedance of the connection portions with the covering of the conductor;

molding a resin for the connector housing around the terminal, the foam element, and the cable conductor exposed from the covering, thus to form a connector housing in a predetermined shape.

18. (currently amended): A method of fabricating a connector for a signal transmission cable, comprising:

welding a terminal and a cable conductor to each other for connection;

forming a pair of foam resin covering members preliminarily formed into shapes which conform to an upper half shape and a lower half shape of connection portions of the terminal and the cable conductor;

fitting said pair of covering members around the connection portions of the terminal and the cable conductor;

molding a resin for ~~the~~ connector housing around the terminal, the covering ~~members~~foam resin, and the cable conductor exposed from a covering, thus to form ~~a~~the connector housing in a predetermined shape.

19. (currently amended): A method of fabricating a connector for a signal transmission cable, comprising:

welding a terminal and a cable conductor for connection;

preparing a foam resin tape;

winding the foam resin tape a predetermined number of times around connection portions of the terminal and the cable conductor to cover the connection portions;

molding a resin for a connector housing around the terminal, the foam resin tape, and the cable conductor exposed from a covering, thus to form a connector housing in a predetermined shape,

wherein the foam resin tape has a predetermined foam ratio selected to substantially match the impedance of the connection portions with the covering of the conductor.

20. (new): The method of fabricating a connector for a signal transmission cable, according to claim 18, wherein the foam resin has a predetermined foam ratio selected to substantially match the impedance of the connection portions with a covering of the cable conductor.